09/419,901
L4/cook
updated search

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(FILE 'HOME' ENTERED AT 12:07:37 ON 13 APR 2006)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 12:08:23 ON 13 APR 2006

L1	522959	S	PHOSPHORYLATION?
L2	2469	S	L1 AND TROPONIN?
L3	1560	S	L1 AND (TROPONIN I)
L4	514	S	L1 AND (TROPONIN T)
L5	521	S	L1 AND (TROPONIN C)
L6	586	S	L1 AND ACTININ?
L7	10601	S	L1 AND (MYOSIN LIGHT CHAIN)
L8	1398	S	L2 AND MUSCLE?
L9	317	S	L4 AND MUSCLE
L10	324	S	L5 AND MUSCLE?
L11	111	S	L6 AND MUSCLE
L12	6382	S	L7 AND MUSCLE
L13	724	DUPLICATE REMOVE	L3 (836 DUPLICATES REMOVED)
L14	3	S	L2 AND (MUSCLE DAMAGE?)
L15	3	DUPLICATE REMOVE	L14 (0 DUPLICATES REMOVED)
L16	0	S	L4 AND (MUSCLE DAMAGE)
L17	235	DUPLICATE REMOVE	L4 (279 DUPLICATES REMOVED)
L18	993	S	L8 AND PD<2000
L19	200	S	L9 AND PD<2000
L20	245	S	L10 AND PD<2000
L21	45	S	L11 AND PD<2000
L22	4507	S	L12 AND PD<2000
L23	536	DUPLICATE REMOVE	L18 (457 DUPLICATES REMOVED)
L24	96	DUPLICATE REMOVE	L19 (104 DUPLICATES REMOVED)
L25	123	DUPLICATE REMOVE	L20 (122 DUPLICATES REMOVED)
L26	30	DUPLICATE REMOVE	L21 (15 DUPLICATES REMOVED)
L27	2125	DUPLICATE REMOVE	L22 (2382 DUPLICATES REMOVED)
L28	39	S	L23 AND MYOFILAMEN?
L29	9	S	L24 AND MYOFILAMEN?
L30	0	S	L23 AND ADDUCT?
L31	8	S	L25 AND MYOFILAMEN?
L32	0	S	L26 AND MYOFILAMEN?
L33	50	S	L27 AND MYOFILAMEN?

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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 12:08:23 ON 13 APR 2006

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L1       522959 S PHOSPHORYLATION?
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L33          50 S L27 AND MYOFILAMEN?
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AN 95289839 EMBASE
DN 1995289839
TI Troponin C - Troponin I interactions and molecular signalling in cardiac **myofilaments**.
AU Solaro R.J.; Lab M.; Landesberg A.; Burkhoff D.; Ter Keurs H.
CS Department of Physiology/Biophysics, College of Medicine, University of Illinois, 901 South Wolcott,Chicago, IL 60612-7342, United States
SO Advances in Experimental Medicine and Biology, (**1995**) Vol. 382, pp. 109-115. .
ISSN: 0065-2598 CODEN: AEMBAP
CY United States
DT Journal; Conference Article
FS 002 Physiology
018 Cardiovascular Diseases and Cardiovascular Surgery
030 Pharmacology
037 Drug Literature Index
LA English
SL English
ED Entered STN: 17 Oct 1995
Last Updated on STN: 17 Oct 1995
AB This chapter describes a current perception of the molecular interactions regulating **myofilament** activity in heart cells. The focus is on the interaction between troponin-C (TnC), the Ca2+-receptor and troponin I (TnI), an inhibitory protein. It is this interaction that appears to form a molecular switch that turns on the thin filament. It will be seen that control of the actin-myosin reaction is not only through Ca2+-binding to TnC, but also through steric, cooperative and allosteric processes involving all of the main **myofilament** proteins-actin, myosin, tropomyosin (Tm), **troponin T** (TnT), TnC, and TnI. The process is modulated by covalent and non- covalent mechanisms. The process is altered in diverse myopathies and pathologies of the heart and is a target for pharmacological manipulation by a new class of inotropic agents, the 'Ca2+-sensitizers'.
CT Medical Descriptors:
*actin myosin interaction
*cardiomyopathy: DT, drug therapy
*cardiomyopathy: ET, etiology
*molecular interaction
allosterism
calcium binding
conference paper
heart muscle cell
myofilament
priority journal
protein phosphorylation
signal transduction
Drug Descriptors:
*calcium ion
*inotropic agent: DT, drug therapy
*inotropic agent: PD, pharmacology
*troponin c
*troponin i
actin
myosin
protein kinase c
tropomyosin
troponin t
RN (calcium ion) 14127-61-8; (troponin c) 56094-11-2; (troponin i) 77108-40-8; (protein kinase c) 141436-78-4; (tropomyosin) 72067-79-9; (**troponin t**) 60304-72-5